

Global Hawk #872 09/24/16 - 09/25/16

Aircraft:

[Global Hawk #872 \(See full schedule\)](#)

Flight Number:

872-0175

Payload Configuration:

NOAA SHOUT HRR

Nav Data Collected:

Yes

Total Flight Time:

22.8 hours

Submitted by:

Frank Cutler on 09/26/16

Flight Segments:

From:	KWFF	To:	KWFF
Start:	09/24/16 18:47 Z	Finish:	09/25/16 17:33 Z
Flight Time:	22.8 hours		
Log Number:	16H004	PI:	Gary Wick
Funding Source:	Robbie Hood - NOAA - UAS Program Manager		
Purpose of Flight:	Science		

Comments:

Second flight against hurricane Karl in the Atlantic. 81 sondes deployed. Global Hawk Completes Flight Over Karl with other "Hurricane Hunters" SHOUT 2016 Science Flight #6 conducts multi-aircraft mission above and around Tropical Storm Karl. NOAA UAS Program's Sensing Hazards with Operational Unmanned Technology (SHOUT) Team launched the NASA/NOAA Global Hawk over Tropical Storm Karl at 1447 EDT 24 September after a 20.5 hour turn-around from the last flight. With the mission to sample Tropical Storm/Hurricane Karl as it tracks rapidly off to the northeast following its turn near Bermuda, the crew hoped that this event would record Karl during intensification to hurricane strength. This sixth SHOUT science flight is being conducted in continued close coordination with the National Hurricane Center, Hurricane Research Division and the manned Hurricane Hunters including conducting inter-comparison formation flight tracks with NOAA WP-3 and G-IV. From the 11 PM September 24th National Hurricane Center (NHC) discussion, "Karl continues to produce a large area of cold-topped convection to the northeast of the center. However, data from the NOAA P-3, NOAA G-IV, and the NASA/NOAA Global Hawk aircraft indicate that the circulation is losing definition as the cyclone accelerates toward the northeast. The initial intensity of 55 kt is based on a combination of dropsonde, flight level, and SFMR winds from the three planes, and the central pressure of 992 mb is based on data from a Global Hawk dropsonde." This will be the second flight into Karl providing a nice connection between our first flight and later planned sampling by the North Atlantic Waveguide and Downstream Impact Experiment (NAWDEX) team after it undergoes ET and tracks toward Europe. The overarching scientific aim of NAWDEX is to increase the physical understanding and to quantify the effects of diabatic processes on disturbances to the jet stream near North America, their influence on downstream propagation across the North Atlantic, and consequences for high-impact weather in Europe. The field campaign will provide a unique observational dataset, sampling the key dynamics and processes associated with the triggering, propagation and downstream impact of disturbances along the North Atlantic waveguide. This final flight over Karl landed at ~1333 EST 25 September after a 23 hours flight and launching 81 dropsondes. John "JC" Coffey -- John "JC" Coffey Cherokee Nation Company supporting: NOAA UAS Program Office National Oceanic and Atmospheric Administration SSMC3/ OAR-R/ Room 11100 1315 East West Highway Silver Spring, MD 20910 Email: John.J.Coffey@noaa.gov Office Telephone: 301-734-1104 Cell Telephone: 904-923-1709

Flight Hour Summary:

	16H004	17H006
Flight Hours Approved in SOFRS	220	

Flight Hours Previously Approved				54	
Total Used				166	73.2
Total Remaining				-19.2	
17H006 Flight Reports					
Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
10/05/16 - 10/06/16	872-0177	Science	24.7	24.7	29.3
10/07/16 - 10/08/16	872-0178	Science	23.7	48.4	5.6
10/09/16 - 10/10/16	872-0179	Science	24.8	73.2	-19.2

Source URL: https://airbornescience.nasa.gov/flight_reports/Global_Hawk_872_09_24_16_-_09_25_16

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Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

16H004 Flight Reports					
Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
07/27/16	872-0168	Check	4.9	4.9	215.1
08/19/16	872-0169	Ferry	10.3	15.2	204.8
08/24/16 - 08/25/16	872-0170	Science	23.9	39.1	180.9
08/26/16 - 08/27/16	872-0171	Science	23.8	62.9	157.1
08/29/16 - 08/30/16	872-0172	Science	23.8	86.7	133.3
09/01/16 - 09/02/16	872-0173	Science	22.8	109.5	110.5
09/22/16 - 09/23/16	872-0174	Science	24	133.5	86.5
09/24/16 - 09/25/16	872-0175	Science	22.8	156.3	63.7
09/28/16	872-0176	Ferry	9.7	166	54